## **CLAIMS**

## What is claimed:

1	1. A method for routing network traffic, comprising:
2	receiving the network traffic;
3	determining a destination for the network traffic;
4	obtaining geographic information on one of a source or the destination associated with
5	the network traffic from a map of the network, the map being produced as a result of:
6	determining a route through the network which includes one of the destination
7	or source;
8	deriving a geographic location of any intermediate hosts contained within the
9	route through the network;
10	analyzing the route and the geographic locations of any intermediate hosts;
11	determining the geographic location of the source or destination; and
12	storing the geographic location in the map; and
13	directing the network traffic to a desired destination based on the geographic location
14	of the source or destination.

2. The method as set forth in claim 1, wherein receiving the network traffic comprises receiving a domain name service inquiry.

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- 1 3. The method as set forth in claim 1, wherein the network traffic comprises a
- 2 domain name service inquiry and wherein directing the network traffic comprises resolving
- 3 the domain service inquiry by selecting the desired destination based on the geographic
- 4 location from a plurality of destinations.
- 1 4. The method as set forth in claim 1, wherein receiving the network traffic
- 2 comprises receiving a request at a host server.
- 1 5. The method as set forth in claim 1, wherein the network traffic comprises a
- 2 request, the desired destination comprises a desired server, and wherein directing the network
- 3 traffic comprises directing the request to the desired server based on the geographic location.
- 1 6. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting a route with a shortest distance to the desired
- 3 destination.
- 1 7. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting a route to the desired destination having the shortest
- 3 latency time.
- 1 8. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting a route having the most available bandwidth.

- 9. The method as set forth in claim 1, wherein directing the network traffic to the desired destination comprises selecting the desired destination based on its load.
- 1 10. The method as set forth in claim 1, wherein the geographic location comprises
- 2 the geographic location of the source and directing the network traffic to the desired
- 3 destination comprises selecting the desired destination because it has content associated with
- 4 the geographic location.
- 1 11. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting the desired destination based on a connection speed
- 3 associated with the source.
- 1 12. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting the desired destination bandwidth available at the
- 3 desired destination.
- 1 13. The method as set forth in claim 1, wherein directing the network traffic to the
- 2 desired destination comprises selecting the desired destination based on a connection speed
- 3 associated with the source and bandwidth available at the desired destination.
- 1 14. The method as set forth in claim 1, wherein directing the network traffic
- 2 comprises selecting a route based on interconnection speeds within the network.

- 1 15. The method as set forth in claim 1, further comprising analyzing the network.
- 1 16. The method as set forth in claim 15, wherein analyzing comprises analyzing 2 interconnections between nodes in the network.
- 1 17. The method as set forth in claim 15, wherein analyzing comprises analyzing 2 nodes within the network.
- 1 18. The method as set forth in claim 15, wherein analyzing comprises modeling 2 behavior of the network.
- 1 19. The method as set forth in claim 18, wherein modeling comprises 2 approximating the behavior at nodes.
- 1 20. The method as set forth in claim 18, wherein modeling comprises simplifying 2 the map of the network by combining nodes in traffic routes.
- 1 21. The method as set forth in claim 1, wherein obtaining the geographic 2 information comprises generating the map of the network.
- 1 22. The method as set forth in claim 1, wherein obtaining the geographic 2 information comprises querying a system for the geographic information and receiving a

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- 1 response from the system with the geographic information.
- 1 23. The method as set forth in claim 1, wherein the network comprises the Internet 2 and the network traffic comprises packets.
- 1 24. A method for routing network traffic, comprising:
- 2 receiving the network traffic;
- determining a destination for the network traffic;
- 4 obtaining intelligence on the network from a map of the network, the map being
- 5 produced as a result of:
  - determining at least one route through the network which includes the
- 7 destination;
- 8 identifying any intermediate hosts contained within the route between a source
- 9 of the network traffic and the destination;
- analyzing interconnections between nodes in the network; and
- storing results of the analyzing in the map; and
- directing the network traffic to a desired destination based on the intelligence on the
- 13 network stored in the map.
- 1 25. The method as set forth in claim 24, wherein the intelligence includes a
- 2 geographic location of the destination.

- 1 26. The method as set forth in claim 24, wherein intelligence includes a geographic location of the source.
- 1 27. The method as set forth in claim 24 wherein intelligence includes a connection 2 speed associated with the source.
- The method as set forth in claim 24 wherein intelligence includes bandwidth available at the destination.
- The method as set forth in claim 24 wherein intelligence includes bandwidth available at the destination and a connection speed associated with the source.
- 1 30 The method as set forth in claim 24 wherein the intelligence includes a latency 2 time associated with the destination.
- 1 31. The method as set forth in claim 24, wherein the intelligence includes information on loads at different destinations.

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